

AMENDMENTS TO THE DRAWINGS

The attached replacement sheet of drawings containing new Figs. 1A, 1B, and 1C are provided to replace originally filed Figs. 1A, 1B, and 1C.

Attachment: Replacement Sheet.

REMARKS

The Applicant has provided a replacement sheet of drawings, as indicated above, that reflects amendments to Figs. 1A, 1B, and 1C to include the designation "prior art" as suggested by the Examiner. In addition, the Examiner has objected to the drawings under 37 CFR 1.83(a) for failing to show where the previous subfield groups are dispersed into the latter subfield groups, as recited in claim 13. However, claim 13 has been amended to cancel the recitation in question and as such the Applicant submits that the objection is now moot.

Before addressing the Examiner's objections and rejections, the Applicant notes that claims 2, 4, 6, 8-9, 11-12, 14-15, and 17-18 have been canceled, and any objection or rejection relating thereto is now moot.

Of the still pending claims, the Examiner has also rejected claims 13 and 16 as being indefinite under 35 U.S.C. §112, second paragraph. With regard to the rejection of claim 13, the Applicant has amended the claim to more clearly recite the relationship among the subfields and associated subfield groups. Moreover, the Applicant has canceled the recitation of the "first display period" found on line 11 of claim 13. As such, the Applicant respectfully submits that the rejection of claim 13 has been overcome. Claim 16 has also been amended to clarify how the subfields are dispersed, and as such submits that the rejection of claim 16 has been successfully overcome.

The Examiner has objected to the claims, including claims 1 and 13 for containing various grammatical errors. In response, the Applicant has amended the claims to correct various grammatical errors, and as such, the Applicant respectfully submits that the objections have been overcome and no new matter has been entered.

Claims 1 and 2 have been rejected under 35 U.S.C. §102(e) as being anticipated by Tajima et al. (US 6,249,265), hereinafter Tajima. After carefully studying Tajima, the Applicant has amended claim 1 to better define over Tajima, such that claim 1 now recites that the data is arranged in the look-up table, as shown in Fig. 3 of the Applicant's specification; that the N number of subfields are aligned from a first subfield (SF1) to an N-th subfield (SF19) in an image-displaying order, as disclosed on page 9, lines 1 -3 of the Applicant's specification; that the

display periods of the subfields become longer from the first subfield towards the N-th subfield (30, 60, ..., 305) or from the N-th subfield towards the first subfield, as disclosed on page 15, lines 25-29 of the Applicant's specification; that a difference in display period between subfields adjacent to each other becomes smaller per at least one subfield as the display periods become longer, as disclosed on page 19, lines 8 to 13 of the Applicant's specification; that for specific gradation levels at which false contour effects have to be restricted, a specific subfield to be turned on is shifted by one subfield in the image-displaying order, or the specific subfield is kept on when the specific subfield is once turned on and one of the subfields having shorter display periods than the specific subfield is turned on, per gradation-level change, as set forth on page 9, lines 22 to 29 of the Applicant's specification; and that for gradation levels except the specific gradation levels, a subfield to be turned on is shifted by at least one subfield in the image-displaying order, per gradation-level change, and wherein when the subfield having the longest display period among the N number of subfields is turned from off to on at a certain gradation level, the subfield thus turned on is kept on at gradation levels higher than the certain gradation level, as set forth on page 9, line 33 to page 10, line 2.

Furthermore, the Examiner has asserted that display periods of the subfields become longer or shorter in order of displaying the image based on Fig. 55, and at column 41, lines 20 to 45 of Tajima. Specifically, the Examiner has paraphrased Tajima as reciting "Thus, the glow cycle or an interval between sub-frames during which a cell is lit becomes shorter." However, the complete sentence found at column 41 lines 20 to 45 reads "Thus, the glow cycle or an interval between sub-frames during which a cell is lit becomes shorter **than it conventionally is.**" As such, this recitation in Tajima compares the display periods between the invention of Tajima with a conventional technique. Thus, there is no teaching that display periods of the subfields become longer or shorter in order of displaying the image shown in Fig. 55 of Tajima.

In Figs. 37 and 38, Tajima shows the sub-fields divided into two groups (SF7, SF5, SF3, and SF1) and (SF2, SF4, SF6, and SF8) with the display periods becoming shorter for the former group and longer for the latter group. As such, the sub-field arrangement of Tajima is clearly different from those recited in the

Applicant's claims. Thus, because each and every limitation of claim 1 is not taught or suggested by Tajima, the Applicant respectfully requests that the rejection of claim 1 be withdrawn.

Claims 3, 4, 5, and 6 have been rejected under 35 U.S.C. §103(a) as being unpatentable over Tajima in view of Otobe et al. (US 6,144,364), hereinafter Otobe. However, because Tajima and Otobe do not individually, or by their combination teach or suggest the sub-field arrangement recited in claims 3 and 5, as previously discussed with regard to claim 1, the Applicant respectfully requests that the rejection of these claims be withdrawn.

The Examiner has also rejected claim 7 under 35 U.S.C. §103(a) as being unpatentable over Tajima as applied in claim 1 and in further view of Hirakawa et al. (US 6,097,358), hereinafter Hirakawa. However, the arrangement of the sub-fields in Hirakawa, shown in Fig. 3, as well as the arrangement of the sub-fields disclosed by Tajima, are clearly different from the arrangement recited in claim 7. Thus, because each and every element of claim 7 is not taught or suggested individually or by the combination of Tajima and Hirakawa, the Applicant respectfully requests that the rejection of claim 7 be withdrawn.

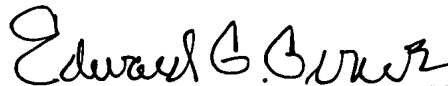
The Examiner has also rejected claim 10 under 35 U.S.C. §103(a) as being unpatentable over Tajima in view of Jeong (US 7,057,584). In particular, the Examiner indicates that Joeng teaches that the first subfields in the first subfield group have a displayed period constant (Figs. 4, 8, 16, 24, 32, and 40) over the first subfields and third subfields in the third subfield group have a displayed period constant over the third subfields (Figs. 4, 8, 16, 24, 32, and 40; and column 4, lines 1 to 70). However, after careful review of Jeong, the Applicant disagrees with the interpretation of the meaning of "constant over the first or third subfields," as Jeong's displayed period varies from 4 to 40 over the first or third subfields. Moreover, at column 4, lines 48 to 50, Jeong teaches that the time difference between sub-fields may be **reduced** in the case of low grays. In contrast, Applicant's claim 10 recites that the first subfields of the first subfield group have a display period constant over the first subfields. Such a recitation means, for example, constant at "290" over the subfields, as shown in Fig. 11 of the Applicant's specification. In particular, in Fig. 11, the "2nd group" corresponds to the claimed first subfield group and the "3rd

Group" share the same value of "290" for the displayed period. In addition, according to claim 10, the displayed period in the first and third subfield groups may be different from each other, as long as the displayed period is constant over each of the first and third subfield groups. As such, because each and every limitation is not taught or suggested individually or by the combination of Tajima and Jeong, the Applicant respectfully requests that the rejection of claim 10 be withdrawn.

In view of the foregoing, it is the Applicant's position that claims 1, 3, 5, 7, 10, 13, and 16 are in condition for allowance. Reconsideration by the Examiner and the issuance of a formal Notice of Allowance is most earnestly solicited.

If any further issues remain after this amendment, a telephone call to the undersigned would be appreciated.

Respectfully submitted,



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